ALCON CTL TESTING PRIVATE LIMITED

Ref: ACTPL/RDM 161206-3/2016 **Date: 22/10/2016**

TEST REPORT

Name of Client : **Sri. A. Chennareddy, Bengaluru.**
Project* : Comprehensive Development of roads and drains in ward No. 01 and 02 in Yelahanka Sub Division.
Customer's reference : RDM 161206-3
Description of Test : Sand Replacement for WMM
Sample Location : At Site (Ward No.2)

Observations and calculations		Test number		
		1	2	3
1	Weight of moist soil from excavated hole = W	2186	2156	2176
2	Weight of Cylinder + Sand before pouring (gm), w1 , g	6987	6854	6875
3	Weight of sand in cone w2 (gm)	335	335	335
4	Wt. of cylinder and sand after filling calibrating container = w4 , g	5432	5234	5396
5	Wt. of sand in the excavated hole =wb , g=(w1-w4 – w2), g	1249	1242	1255
6	Volume of sand in the hole, V=wb / Ys , cm3	925.19	920.00	929.63
7	In –situ bulk density of wet excavated soil, Y= w/V, G/cm3	2.36	2.34	2.34
8	Weight of soil for Moisture Content determinations			
9	Wet Weight =	63.59	64.26	63.72
10	Dry Weight =	58.82	60.28	59.82
11	Moisture Content =	5.21	5.05	5.11
12	Field Dry Density (g/cc)	2.24	2.23	2.22

Satisfy the Limits ☑
Does not satisfy the limits

**** As Furnished by the Customer***

Note:

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For **ALCON CTL TESTING PVT. LTD.**

Ashwini K, BE, M.Tech
Quality Manager

ALCON CTL TESTING PRIVATE LIMITED BANGALORE

Ground Floor, #35, 4th Main, 4th Stage, Next to Trinity Motors. Indl. Town, Basaveshwar Nagar, Bangalore – 560 079, Karnataka, India
Phone: 91-08-23504236 Email: mail@alconctl.com

ALCON CTL TESTING PRIVATE LIMITED

Ref: ACTPL/RDM 161206-3/2016 **Date: 02/11/2016**

TEST REPORT

Name of Client : **Sri. A. Chennareddy, Bengaluru.**
Project* : Comprehensive Development of roads and drains in ward No. 01 and 02 in Yelahanka Sub Division.
Customer's reference : RDM 161206-3
Description of Test : Sand Replacement for WMM
Sample Location : At Site (Ward No.2)

	Observations and calculations	Test number		
		1	2	3
1	Weight of moist soil from excavated hole = W	2205	2287	2317
2	Weight of Cylinder + Sand before pouring (gm), w1 , g	6970	6985	6972
3	Weight of sand in cone w2 (gm)	335	335	335
4	Wt. of cylinder and sand after filling calibrating container = w4 , g	5398	5382	5348
5	Wt. of sand in the excavated hole =wb , g=(w1-w4 – w2), g	1233	1276	1299
6	Volume of sand in the hole, V=wb / Ys , cm3	913.33	945.19	962.22
7	In –situ bulk density of wet excavated soil, Y= w/V, G/cm3	2.41	2.42	2.41
8	Weight of soil for Moisture Content determinations			
9	Wet Weight =	63.58	63.83	65.02
10	Dry Weight =	58.25	59.25	61.95
11	Moisture Content =	5.12	5.38	5.23
12	Field Dry Density (g/cc)	2.29	2.29	2.28

Satisfy the Limits ☑
Does not satisfy the limits
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Phone: 91-08-23504236 Email: mail@alconctl.com

ALCON CTL TESTING PRIVATE LIMITED

Ref: ACTPL/RDM 161206-3/2016 **Date: 04/11/2016**

TEST REPORT

Name of Client : **Sri. A. Chennareddy, Bengaluru.**
Project* : Comprehensive Development of roads and drains in ward No. 01 and 02 in Yelahanka Sub Division.
Customer's reference : RDM 161206-3
Description of Test : Sand Replacement for DBM
Sample Location : At Site (Ward No.2)

Observations and calculations		Test number		
		1	2	3
1	Weight of moist soil from excavated hole = W	2354	2458	2419
2	Weight of Cylinder + Sand before pouring (gm), w1 , g	6825	6783	6750
3	Weight of sand in cone w2 (gm)	335	335	335
4	Wt. of cylinder and sand after filling calibrating container = w4 , g	5392	5465	5436
5	Wt. of sand in the excavated hole =wb , g=(w1-w4 – w2), g	1254	1297	1253
6	Volume of sand in the hole, V=wb / Ys , cm3	928.89	960.74	928.15
7	In –situ bulk density of wet excavated soil, Y= w/V, G/cm3	2.53	2.56	2.61
8	Weight of soil for Moisture Content determinations			
9	Wet Weight =	63.83	62.86	63.25
10	Dry Weight =	58.96	58.23	59.65
11	Moisture Content =	5.71	6.95	5.32
12	Field Dry Density (g/cc)	2.39	2.38	2.47

Satisfy the Limits ☑
Does not satisfy the limits
** As Furnished by the Customer*

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Phone: 91-08-23504236 Email: mail@alconctl.com

ALCON CTL TESTING PRIVATE LIMITED

Ref: ACTPL/RDM 161206-3/2016 **Date: 07/11/2016**

TEST REPORT

Name of Client : **Sri. A. Chennareddy, Bengaluru.**
Project* : Comprehensive Development of roads and drains in ward No. 01 and 02 in Yelahanka Sub Division.
Customer's reference : RDM 161206-3
Description of Test : Sand Replacement for DBM
Sample Location : At Site (Ward No.2)

	Observations and calculations	Test number		
		1	2	3
1	Weight of moist soil from excavated hole = W	2410	2387	2344
2	Weight of Cylinder + Sand before pouring (gm), w1 , g	6799	6524	6878
3	Weight of sand in cone w2 (gm)	335	335	335
4	Wt. of cylinder and sand after filling calibrating container = w4 , g	5356	5234	5385
5	Wt. of sand in the excavated hole =wb , g=(w1-w4 – w2), g	1243	1329	1258
6	Volume of sand in the hole, V=wb / Ys , cm3	920.74	984.44	931.85
7	In –situ bulk density of wet excavated soil, Y= w/V, G/cm3	2.62	2.42	2.52
8	Weight of soil for Moisture Content determinations			
9	Wet Weight =	63.54	64.26	63.72
10	Dry Weight =	58.02	60.28	59.82
11	Moisture Content =	5.21	5.05	5.04
12	Field Dry Density (g/cc)	2.48	2.30	2.39

Satisfy the Limits ☑
Does not satisfy the limits

As Furnished by the Customer

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Phone: 91-08-23504236 Email: mail@alconctl.com

ALCON CTL TESTING PRIVATE LIMITED

v Ref: ACTPL/RDM 161206-3/2016 Date: 09/11/2016

TEST REPORT

Name of Client : **Sri. A. Chennareddy, Bengaluru.**
Project* : Comprehensive Development of roads and drains in ward No. 01 and 02 in Yelahanka Sub Division.
Customer's reference : RDM 161206-3
Description of Test : Sand Replacement for DBM
Sample Location : At Site (Ward No.2)

Observations and calculations		Test number		
		1	2	3
1	Weight of moist soil from excavated hole = W	2365	2310	2245
2	Weight of Cylinder + Sand before pouring (gm), w1 , g	6702	6587	6759
3	Weight of sand in cone w2 (gm)	335	335	335
4	Wt. of cylinder and sand after filling calibrating container = w4 , g	5321	5236	5287
5	Wt. of sand in the excavated hole =wb , g=(w1-w4 – w2), g	1262	1275	1248
6	Volume of sand in the hole, V=wb / Ys , cm3	934.81	944.44	924.44
7	In –situ bulk density of wet excavated soil, Y= w/V, G/cm3	2.53	2.45	2.43
8	Weight of soil for Moisture Content determinations			
9	Wet Weight =	64.02	63.58	65.24
10	Dry Weight =	59.98	59.45	61.08
11	Moisture Content =	5.21	5.21	5.29
12	Field Dry Density (g/cc)	2.40	2.32	2.30

Satisfy the Limits ☑
Does not satisfy the limits

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Phone: 91-08-23504236 Email: mail@alconctl.com

ALCON CTL TESTING PRIVATE LIMITED

Ref: ACTPL/RDM 161206-3/2016 **Date: 11/11/2016**

TEST REPORT

Name of Client : **Srl. A. Chennareddy, Bengaluru.**
Project* : Comprehensive Development of roads and drains in ward No. 01 and 02 in Yelahanka Sub Division.
Customer's reference : RDM 161206-3
Description of Test : Sand Replacement for DBM
Sample Location : At Site (Ward No.2)

Observations and calculations		Test number		
		1	2	3
1	Weight of moist soil from excavated hole = W	2410	2387	2344
2	Weight of Cylinder + Sand before pouring (gm), w1 , g	6799	6524	6878
3	Weight of sand in cone w2 (gm)	335	335	335
4	Wt. of cylinder and sand after filling calibrating container = w4 , g	5356	5234	5385
5	Wt. of sand in the excavated hole =wb , g=(w1-w4 – w2), g	1243	1329	1258
6	Volume of sand in the hole, V=wb / Ys , cm3	920.74	984.44	931.85
7	In –situ bulk density of wet excavated soil, Y= w/V, G/cm3	2.62	2.42	2.52
8	Weight of soil for Moisture Content determinations			
9	Wet Weight =	63.54	64.26	63.72
10	Dry Weight =	58.02	60.28	59.82
11	Moisture Content =	5.21	5.05	5.04
12	Field Dry Density (g/cc)	2.48	2.30	2.39

Satisfy the Limits ☑
Does not satisfy the limits
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Phone: 91-08-23504236 Email: mail@alconctl.com

ALCON CTL TESTING PRIVATE LIMITED

Ref: ACTPL/RDM 161206-3/2016 **Date: 01/11/2016**

TEST REPORT

Name of Client : **Sri. A. Chennareddy, Bengaluru.**
Project* : Comprehensive Development of roads and drains in ward No. 01 and 02 in Yelahanka Sub Division.
Customer's reference : RDM 161206-3
Description of Test : Sand Replacement for DBM
Sample Location : At Site (Ward No.2)

Observations and calculations		Test number		
		1	2	3
1	Weight of moist soil from excavated hole = W	2366	2322	2254
2	Weight of Cylinder + Sand before pouring (gm), w1 , g	6954	6893	6853
3	Weight of sand in cone w2 (gm)	335	335	335
4	Wt. of cylinder and sand after filling calibrating container = w4 , g	5323	5299	5169
5	Wt. of sand in the excavated hole =wb , g=(w1-w4 – w2), g	1281	1269	1298
6	Volume of sand in the hole, V=wb / Ys , cm3	948.89	940.00	961.48
7	In –situ bulk density of wet excavated soil, Y= w/V, G/cm3	2.49	2.47	2.34
8	Weight of soil for Moisture Content determinations			
9	Wet Weight =	63.86	65.92	63.58
10	Dry Weight =	60.12	61.86	58.95
11	Moisture Content =	5.25	5.19	5.41
12	Field Dry Density (g/cc)	2.36	2.34	2.22

Satisfy the Limits ☑
Does not satisfy the limits

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ALCON CTL TESTING PRIVATE LIMITED

Ref: ACTPL/RDM 161206-3/2016 **Date: 11/11/2016**

TEST REPORT

Name of Client : **Sri. A. Chennareddy, Bengaluru.**
Project* : Comprehensive Development of roads and drains in ward No. 01 and 02 in Yelahanka Sub Division.
Customer's reference : RDM 161206-3
Description of Test : Sand Replacement for BC
Sample Location : At Site (Ward No.2)

Observations and calculations		Test number		
		1	2	3
1	Weight of moist soil from excavated hole = W	2408	2384	2340
2	Weight of Cylinder + Sand before pouring (gm), w1 , g	6799	6524	6878
3	Weight of sand in cone w2 (gm)	335	335	335
4	Wt. of cylinder and sand after filling calibrating container = w4 , g	5356	5234	5385
5	Wt. of sand in the excavated hole =wb , g=(w1-w4 – w2), g	1243	1329	1258
6	Volume of sand in the hole, V=wb / Ys , cm3	920.74	984.44	931.85
7	In –situ bulk density of wet excavated soil, Y= w/V, G/cm3	2.62	2.42	2.52
8	Weight of soil for Moisture Content determinations			
9	Wet Weight =	63.54	64.26	63.72
10	Dry Weight =	58.02	60.28	59.82
11	Moisture Content =	5.21	5.05	5.04
12	Field Dry Density (g/cc)	2.48	2.30	2.39

☑ *Satisfy the Limits*
Does not satisfy the limits

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Phone: 91-08-23504236 Email: mail@alconctl.com

ALCON CTL TESTING PRIVATE LIMITED

Ref: ACTPL/RDM 161206-3/2016 **Date: 05/11/2016**

TEST REPORT

Name of Client : **Sri. A. Chennareddy, Bengaluru.**
Project* : Comprehensive Development of roads and drains in ward No. 01 and 02 in Yelahanka Sub Division.
Customer's reference : RDM 161206-3
Description of Test : Sand Replacement for DBM
Sample Location : At Site (Ward No.2)

Observations and calculations		Test number		
		1	2	3
1	Weight of moist soil from excavated hole = W	2144	2223	2252
2	Weight of Cylinder + Sand before pouring (gm), w1 , g	6970	6985	6972
3	Weight of sand in cone w2 (gm)	335	335	335
4	Wt. of cylinder and sand after filling calibrating container = w4 , g	5398	5382	5348
5	Wt. of sand in the excavated hole =wb , g=(w1-w4 – w2), g	1193	1182	1201
6	Volume of sand in the hole, V=wb / Ys , cm3	883.70	875.56	889.63
7	In –situ bulk density of wet excavated soil, Y= w/V, G/cm3	2.43	2.54	2.53
8	Weight of soil for Moisture Content determinations			
9	Wet Weight =	63.58	63.83	65.02
10	Dry Weight =	58.25	59.25	61.95
11	Moisture Content =	5.32	5.6	5.82
12	Field Dry Density (g/cc)	2.30	2.40	2.38

Satisfy the Limits ☑
Does not satisfy the limits
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Phone: 91-08-23504236 Email: mail@alconctl.com

ALCON CTL TESTING PRIVATE LIMITED

Ref: ACTPL/RDM 161206-3/2016 **Date: 18/08/2016**

TEST REPORT

Name of Client : **Sri. A. Chennareddy, Bengaluru.**
Project* : Comprehensive Development of roads and drains in ward No. 01 and 02 in Yelahanka Sub Division.
Customer's reference : RDM 161206-3
Description of Test : Physical Properties of Cement.
Period of test : 15/08/2016 to 15/08/2016
Sample Received on : 15/08/2016
Condition of the Sample at the time of receiving : Dry
Samples Supplied to Lab by : **Sri. A. Chennareddy, Bengaluru**

Description	Cement
Weight of empty flask, W1 g =	100.00
Weight of empty flask + Cement, W2 g =	169.00
Weight of flask + Cement + Kerosene, W3 g =	220.0
Weight of flask + Kerosene W4g =	180.00
Specific Gravity = (W2-W1)/((W2-W1)- (W3-W4)) X 0.79	3.01

Sl No.	Description	Permissible Limits
1	Specific Gravity	3.15

Remarks:
Satisfy the Limits ☑
Does not satisfy the limits

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ALCON CTL TESTING PRIVATE LIMITED

Ref: ACTPL/RDM 161206-3/2016 **Date: 19/08/2016**

TEST REPORT

Name of Client	: **Sri. A. Chennareddy, Bengaluru.**
Project*	: Comprehensive Development of roads and drains in ward No. 01 and 02 in Yelahanka Sub Division.
Customer's reference	: RDM 161206-3
Description of Test	: Physical Properties of Cement
Period of test	: 15/08/2016 to 15/08/2016
Sample Received on	: 15/08/2016
Condition of the Sample at the time of receiving	: Dry
Samples Supplied to Lab by	: **Sri. A. Chennareddy, Bengaluru.**

Test on Cement:

Sl No.	Test to be Conducted	Results	IS : 8112-1980 Stipulation
1	Normal Consistency	28.00 %	Not Specified
2	Initial Setting Time	170 mins	Shall not be less than 30 minutes
3	Final Setting Time	245 mins	Shall not be more than 600 minutes

☑ *Satisfactory*
☐ *Non Satisfactory*

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ALCON CTL TESTING PRIVATE LIMITED

Ref: ACTPL/RDM 161206-3/2016 **Date: 19/08/2016**

Name of Client	: **Sri. A. Chennareddy, Bengaluru.**
Project*	: Comprehensive Development of roads and drains in ward No. 01 and 02 in Yelahanka Sub Division.
Customer's reference	: RDM 161206-3
Description of Test	: Physical Properties of Sand
Period of test	: 15/08/2016 to 15/08/2016
Sample Received on	: 15/08/2016
Condition of the Sample at the time of receiving	: Dry
Samples Supplied to Lab by	: **Sri. A. Chennareddy, Bengaluru.**

Description	Sand
Weight of empty bottle with stoppert, W1 g =	497.00
Weight of bottle + soil sample with stopper, W2 g =	996.5
Weight of bottle + sample + water with sample W3 g =	1497.00
Weight of bottle + water with stopper W4g =	1201.00
Specific Gravity = (W2-W1)/((W2-W1)- (W3-W4))	2.69

Sl No.	Description	Permissible Limits
1	Specific Gravity	2.5 to 3.0

Remarks:
Satisfy the Limits ☑
Does not satisfy the limits

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ALCON CTL TESTING PRIVATE LIMITED

Ref: ACTPL/RDM 161206-3/2016 **Date: 13/11/2016**

TEST REPORT

Name of Client : **Sri. A. Chennareddy, Bengaluru.**
Project* : Comprehensive Development of roads and drains in ward No. 01 and 02 in Yelahanka Sub Division.
Customer's reference : RDM 161206-3
Description of Test : Gradation for BC.
Sample Location : Ward No.1
Total Weight of Sample : 3000grams

Sieve size	Weight Retained	Cumulative retained	% retained	% passing	Limits
19	0	0	0.0	100	100
13.2	312	312	10.4	89.6	79-100
9.5	366	678	22.6	77.4	70-88
4.75	422	1100	36.7	63.3	53-71
2.36	378	1478	49.3	50.7	42-58
1.18	312	1790	59.7	40.3	34-48
0.6	412	2202	73.4	26.6	26-38
0.3	400	2602	86.7	13.3	18-28
0.15	100	2702	90.1	9.9	12-20
0.075	165	2867	95.6	4.4	4-10

Satisfy the Limits ☑
Does not satisfy the limits
** As Furnished by the Customer*
Note:

1. The test results relate only to the item(s) tested.
2. Publication or reproduction of this report in any form other than by complete set of the whole report and in the language written is not permitted without the written approval.
3. Corrections / erasing invalidate the test report
4. Any anomaly / discrepancy in the test report should be brought to our notice within 7 days from the date of issue

For ALCON CTL TESTING PVT. LTD.

Ashwini K, BE, M.Tech
Quality Manager

ALCON CTL TESTING PRIVATE LIMITED BANGALORE

Ground Floor, #35, 4th Main, 4th Stage, Next to Trinity Motors. Indl. Town, Basaveshwar Nagar, Bangalore – 560 079, Karnataka, India.
Phone: 91-08-23504236 Email: mail@alconctl.com

ALCON CTL TESTING PRIVATE LIMITED

Ref: ACTPL/RDM 161206-3/2016 **Date: 16/11/2016**

TEST REPORT

Name of Client : **Sri. A. Chennareddy, Bengaluru.**
Project* : Comprehensive Development of roads and drains in ward No. 01 and 02 in Yelahanka Sub Division.
Customer's reference : RDM 161206-3
Description of Test : Gradation for BC.
Sample Location : Ward No.1
Total Weight of Sample : 3000grams

Sieve size	Weight Retained	Cumulative retained	% retained	% passing	Limits
19	0	0	0.0	100	100
13.2	235	235	9.4	90.6	79-100
9.5	261	496	19.8	80.2	70-88
4.75	309	805	32.2	67.8	53-71
2.36	287	1092	43.7	56.3	42-58
1.18	306	1398	55.9	44.1	34-48
0.6	301	1699	68.0	32.0	26-38
0.3	289	1988	79.5	20.5	18-28
0.15	162	2150	86.0	14.0	12-20
0.075	199	2349	94.0	6.0	4-10

Satisfy the Limits ☑
Does not satisfy the limits
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Phone: 91-08-23504236 Email: mail@alconctl.com

ALCON CTL TESTING PRIVATE LIMITED

Ref: ACTPL/RDM 161206-3/2016 **Date: 13/11/2016**

TEST REPORT

Name of Client : **Sri. A. Chennareddy, Bengaluru.**
Project* : Comprehensive Development of roads and drains in ward No. 01 and 02 in Yelahanka Sub Division.
Customer's reference : RDM 161206-3
Description of Test : Gradation for BC.
Sample Location : Ward No.2
Total Weight of Sample : 5250grams

Sieve size	Weight Retained	Cumulative retained	% retained	% passing	Limits
19	0	0	0.0	100	100
13.2	597	597	11.4	88.6	79-100
9.5	521	1118	21.3	78.7	70-88
4.75	619	1737	33.1	66.9	53-71
2.36	574	2311	44.0	56.0	42-58
1.18	613	2924	55.7	44.3	34-48
0.6	601	3525	67.1	32.9	26-38
0.3	785	4310	82.1	17.9	18-28
0.15	325	4635	88.3	11.7	12-20
0.075	396	5031	95.8	4.2	4-10

Satisfy the Limits ☑
Does not satisfy the limits
** As Furnished by the Customer*
Note:

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